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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/072,574	02/06/2002	Markus Kukuk	2001P07456 US01	1940
75	90 01/04/2005		EXAMINER	
Siemens Corporation			LEUBECKER, JOHN P	
Intellectual Property Department 186 Wood Avenue South Iselin, NJ 08830			ART UNIT	PAPER NUMBER
			3739	

DATE MAILED: 01/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		SP
	Application No.	Applicant(s)
	10/072,574	KUKUK, MARKUS
Office Action Summary	Examiner	Art Unit
	John P. Leubecker	3739
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wit	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a re within the statutory minimum of thirty iill apply and will expire SIX (6) MON cause the application to become AB	eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).
Status		
<ul> <li>1) ☐ Responsive to communication(s) filed on 17 Second</li> <li>2a) ☐ This action is FINAL.</li> <li>2b) ☐ This</li> <li>3) ☐ Since this application is in condition for alloware closed in accordance with the practice under Expression in the practice of the pra</li></ul>	action is non-final. nce except for formal matte	• •
Disposition of Claims		
4) ☐ Claim(s) 1-31 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 and 20-31 is/are rejected. 7) ☐ Claim(s) 19 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer of the correction of the original transfer of the correction of the correction of the original transfer of the correction of the corre	epted or b) objected to be drawing(s) be held in abeyand on is required if the drawing(	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign  a) All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  * See the attached detailed Office action for a list of	s have been received. s have been received in Apity documents have been (PCT Rule 17.2(a)).	pplication No received in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s	ummary (PTO-413) )/Mail Date formal Patent Application (PTO-152)

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Paper No(s)/Mail Date \_\_\_\_\_.

6) Other: \_\_\_\_.

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Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-18, 20-25, 29 and 30 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims are directed to nothing more than the manipulation of abstract concepts (parameterizing, determining, etc.) without any practical application of those concepts. Eligible subject mater under 35 USC 101 includes machines, compositions of matter, articles of manufacture and processes. However, not all processes have been held to be statutory processes. The manipulation of abstract ideas in the form of a process claim has been held to be one of the exceptions to statutory subject matter.

#### Claim Rejections - 35 USC § 102

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-11, 29 and 30 are rejected under 35 U.S.C. 102(e) as being anticipated by Guthrie et al. (U.S. Pat. 6,409,686) for the reasons set forth in numbered paragraph 5 of the previous Office Action, paper number 06102004.

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4. Claims 1-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Alft et al. (US 2003/0173113) for the reasons set forth in numbered paragraph 6 of the previous Office Action, paper number 06102004.

### Allowable Subject Matter

5. Claim 19 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. With regards to claim 19, it is this examiner's opinion that the steps of inserting the scope to a landmark, etc. are a practical application of the previously recited abstract concepts and is thus statutory.

## Response to Arguments

6. Applicant's arguments filed September 17, 2004 have been fully considered but they are not persuasive.

Regarding the Guthrie et al. reference, the Examiner has interpreted the probe and digitizer arm as the "flexible instrument". Due to its physical existence and particular construction, the "flexible instrument" of Guthrie et al. inherently has physical parameters and physical parameter limitations. The probe of Guthrie inherently has a length. This is a parameter. Each segment of the digitizer arm inherently has a length. These are parameters. The amount of distance the probe can travel through the probe holder (2) is inherently known. This is a parameter. The amount of rotation that the probe exhibits within the probe holder is inherently known. This is a parameter. The amount of rotation of each segment of the digitizer arm with respect to each

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other is known. This is a parameter. The list goes on. Each of these and many other parameters are inherently recognized by anyone making or using such device. As recognized by Applicant, the "parameterizing" the flexible instrument merely involves recognizing its physical characteristics and limits on movement. Therefore, the Examiner takes the position that Guthrie et al. teaches the claimed "parameterizing" step.

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For the same reasons as discussed above, the Examiner takes the position that Alft et al. teach the "parameterizing" step. It also must be pointed out that the Alft et al. bore planning method would be totally useless if physical characteristics and movement limitations of the boring machine are not taken into consideration when planning the bore plan. Recognition of these physical characteristics and movement limitations meet the "parameterizing" step.

Although previously not readily apparent to the Examiner, due to recent training, it has been determined that a rejection under 35 USC 101 is appropriate for most of the claims.

Accordingly, a rejection appears above.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John P. Leubecker whose telephone number is (571) 272-4769. The examiner can normally be reached on Monday through Friday, 6:00 AM to 2:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C.M. Dvorak can be reached on (571) 272-4764. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John P. Leubecker Primary Examiner Art Unit 3739

jpl